

Chemistry Report for Case # P-19-0025

General

Submitter:Bercen, Inc.

Contact: Steven Boone

Contact Telephone No.: [REDACTED]

TS No.: BS01SO

Chemist: Masten, Bethany

Contractor Support: Y

PV Init (kg/yr): [REDACTED]

PV Max (kg/yr): [REDACTED]

Binding Option: ☐

Exposure-Based Review: ☒

Manufacture: ☒

Import: ☐

CAS Number:62978-77-2

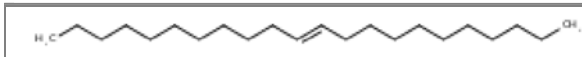
Chemical Name:11-Docosene

Trade Name:None

IES Order:437112-1

Generic Name:not
CBI

Chemical Structure



Physical Chemical Properties

Molecular Formula:C22
H44

Molecular Weight:308.6

% < 500:

% < 1000:

MP:

MP Estimate:<20

BP:

BP Pressure:

BP Estimate:361

VP (Torr):	VP Estimate (Torr): 0.00015
Water Solubility (g/L):	Water Soluble Estimate (g/L): <0.000001
Log P:	Log P Estimate: 10.93
Physical State — Neat: Liquid	Physical State — Manuf: Liquid

Physical State — Processing: NA
Physical State — End Use: Destroyed

Additional Chemical Info

Submitted
 Properties: MP < 20 °C (Exp.); BP = 350 °C (Sub. Est.); VP = 0.01 torr (Sub. Est. at 100 °C); WS < 0.00002 g/L (Sub. Est.); Flash Point = 185 °C (Sub. Est.); Density = 0.79 g/cc.
 Estimated Properties: BP = 361 °C (EPI), 385 °C (ACD), 377 °C (NOMO5); VP = 0.00015 torr (EPI), 8.9E-6 torr (ACD), 1.2E-5 torr (NOMO5); WS = 1.90E-9 g/L (EPI), 2.8E-7 g/L (ACD); logP = 10.93 (EPI), 11.51 (ACD).

Uses

Consumer Use? No

Use:

Analogue (same use): None.
 Patents (same use):
 None.

Other Uses:

Analogue
 (other use):

Analogue (same use and other use):
 None.

Patents (other use):



Reaction Description

1-Dodecene undergoes a metathesis reaction in the presence of ruthenium as the ethene coproduct is vented off to a flare. Upon completion of the reaction, the PMN material is washed with water.

Pollution Prevention Analysis(P2 Analysis:)

P2

Claim:

For the [REDACTED] from this olefin [REDACTED]:

Reduced

usage - lab results show 25-75% more efficient than existing [REDACTED] technology.

Ability to work in beverage containers allows shipping 100% active material to the plant versus incumbent products at 12-20% active in water. This lowers transportation volumes.

Analogs



Comments/Telephone Log

Artifact	Update/Upload Time